

US EPA ARCHIVE DOCUMENT

CASE GS --

SYSTHANE

STUDY 2

PM --

CHEM 128857

Systhane

BRANCH EAB

DISC --

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID No MRID

CONTENT CAT 01

Ackermann, I.B. 1986b. Addendum to RH-3866 soil metabolism study, TR No. 310-84-14. Report No. 31H-86-15. Prepared and submitted by Rohm and Haas Company, Philadelphia, PA. Acc. No. 265747.

SUBST. CLASS = S.

DIRECT RVW TIME = 4

(MH) START-DATE

END DATE

REVIEWED BY: L. Binari

TITLE: Staff Scientist

ORG: Dynamac Corp., Rockville, MD

TEL: 468-2500

APPROVED BY: J. Jordan

TITLE: Microbiologist

ORG: EAB/HED/OPP

TEL: 557-5457

SIGNATURE: 

DATE: 5/15/87

CONCLUSIONS:Metabolism - Aerobic Soil

In a previous review (Dynamac report dated 3/13/85) of an aerobic soil metabolism study (Ackermann, Acc. No. 072907), it was concluded that this study was scientifically valid, but did not fulfill data requirements because the incubation temperature was not reported, results from analysis of the 367-day samples were not reported, and a polar unknown was not characterized. The incubation temperature was subsequently provided by the registrant (EAB review 3/5/86).

In response to the remaining deficiencies, the registrant has submitted an addendum to the aerobic soil metabolism study. The additional data show that at 367 days posttreatment, parent sythane comprised 29-33% of the recovered radioactivity. The major degradates were CO₂, 1,2,4-triazole, and a polar degradate which was identified as β -4-chlorophenyl- β -cyano- γ -(1H-1,2,4-triazole)-butyric acid.

In conclusion, the combined data from the aerobic soil metabolism study and the addendum are scientifically valid and fulfill data requirements by providing information on the metabolism of sythane in silt loam soil under aerobic conditions.